

OSIS is an authorized distributor of Acchrom products in Malaysia



**EFFICIENT
EXCELLENT**

Quick Choice

S6000 Plus
UHPLC

S6000 Plus

UHPLC

S6000Plus is a performance upgraded UHPLC liquid chromatography system designed to improve the efficiency of laboratory analysis.

The key factor to improving sample analysis efficiency is the use of small particle size columns, and the analytical instrument is the platform for its performance. The Acchrom refers to the theory of liquid chromatography, studies and defines the dependence between particle size chromatographic column and liquid chromatographic instrument, so as to optimize and design the matching pipeline system, which makes S6000Plus a reliable instrument platform for the excellent performance of small particle size chromatographic column.

Detector

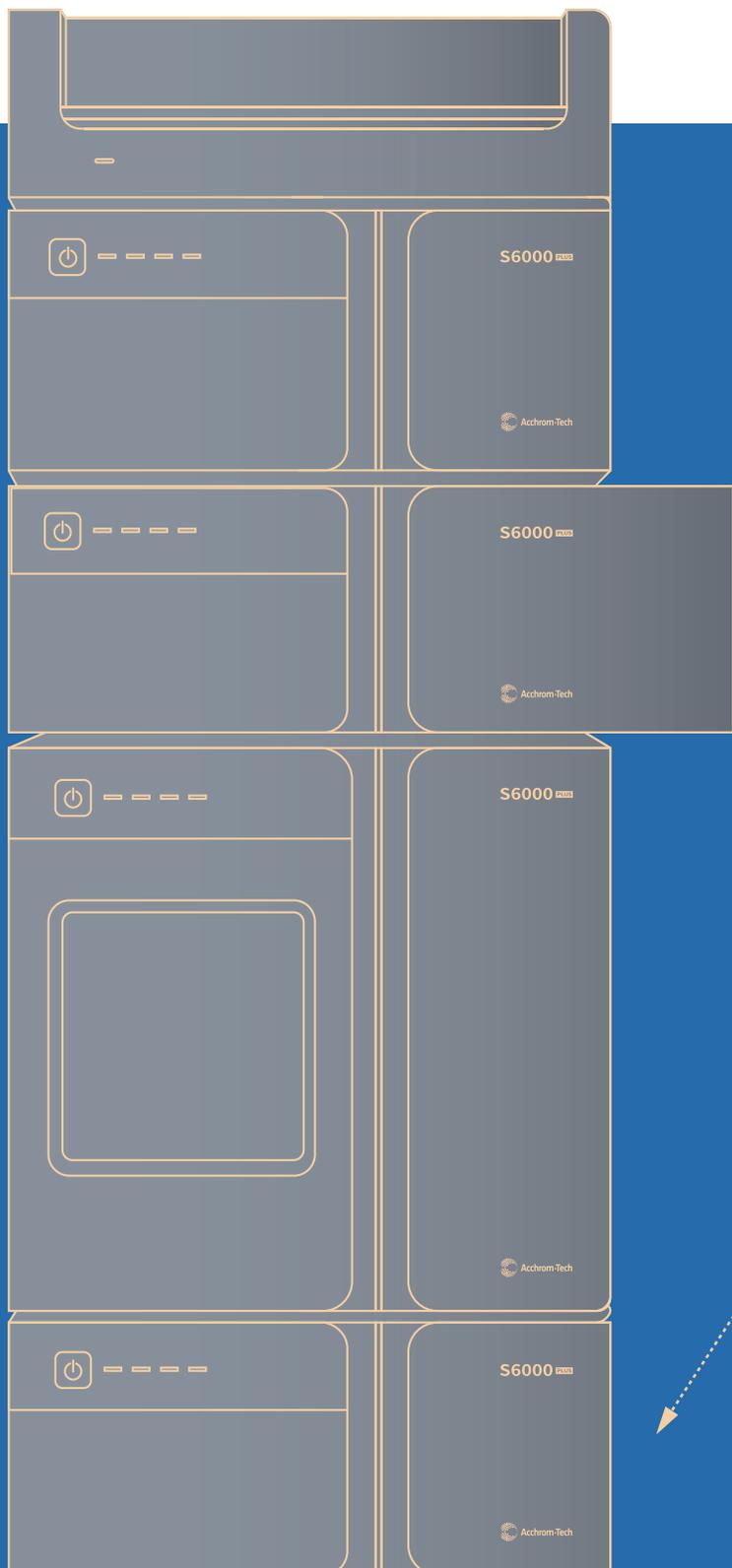
—high sensitivity

Provide, UV, UV-Vis, DAD, FL, RI, ELSD; DAD can meet the needs of high sensitivity analysis and purity analysis at the same time; FL high sensitivity and long lamp life, meet the needs of trace detection.

Autosampler System

—lower residue injection system

FTN injection with lower residue and higher injection reproducibility.



Column oven —Accurate temperature control

The advanced Peltier temperature control mode is the basis for accurate temperature control. The mobile phase preheating function ensures the accuracy of temperature control.

Quaternary gradient pump system —stable performance and low pulsation

Flexible configuration of four element low-pressure pump or two element high-pressure pump. The high-precision low pulsation mixing effect fully ensures the accuracy and stability of the analysis.

Pump System

Higher precision, Lower pulsation and Excellent stability

The four element pump system achieves high-frequency mixing of the gradient system, reduces the generation of solvent mixing bubbles, reduces infusion pulsation, and ensures infusion accuracy and stability.

HFM high frequency hybrid mode

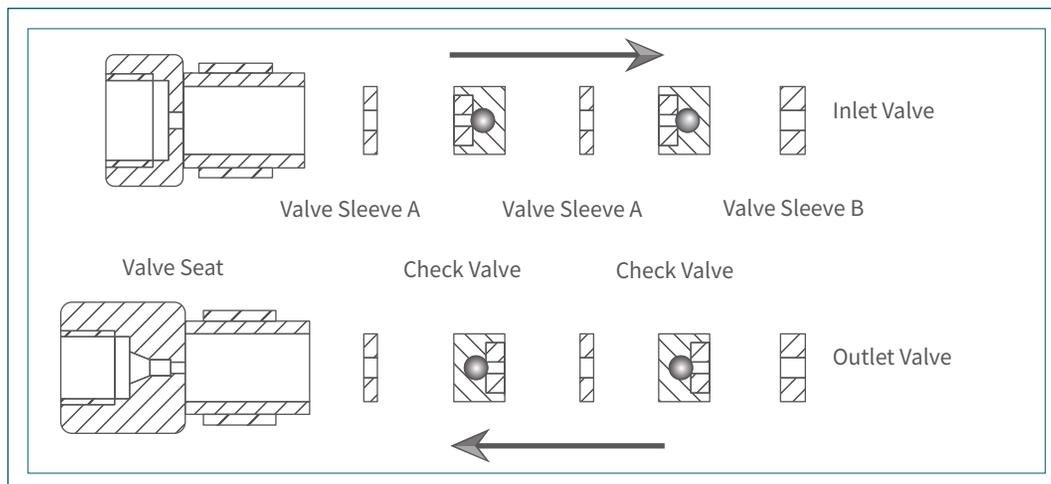
By increasing the switching frequency of proportional valve, the mixing accuracy of mobile phase is improved.

The sufficient mixing of solvent can be ensured without large volume mixer, which greatly reduces the system delay volume and baseline noise of the system.



Cascade inlet and outlet valve core design

The two-stage series valve core of the inlet and outlet valve ensures the stability of infusion and reduces the pulsation of the pump system.



Automatic Sampler System

Lower residue, Higher precision and Excellent reproducibility

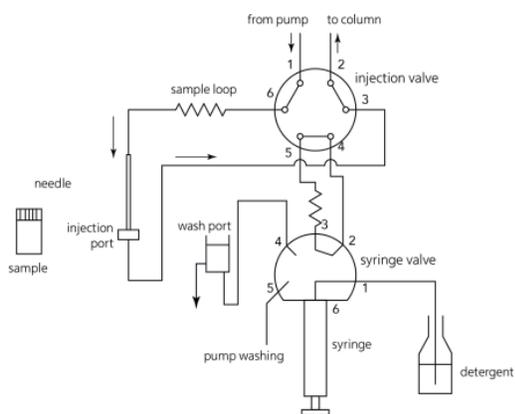
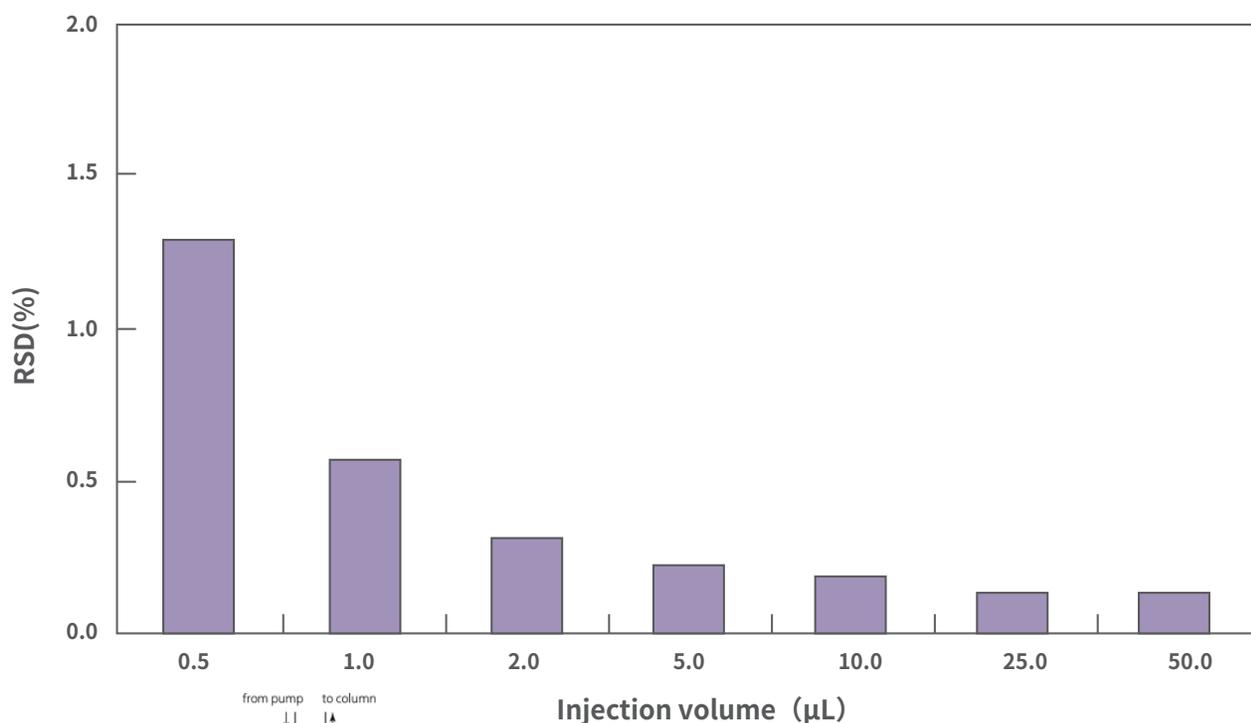
High injection reproducibility

The direct injection method combined with the improved design of a new high-precision injection driving unit ensures the accuracy and repeatability of the injection.

1 FTN injection method

2 Surf style needle outer wall cleaning

3 Needle washing solution not to be reused



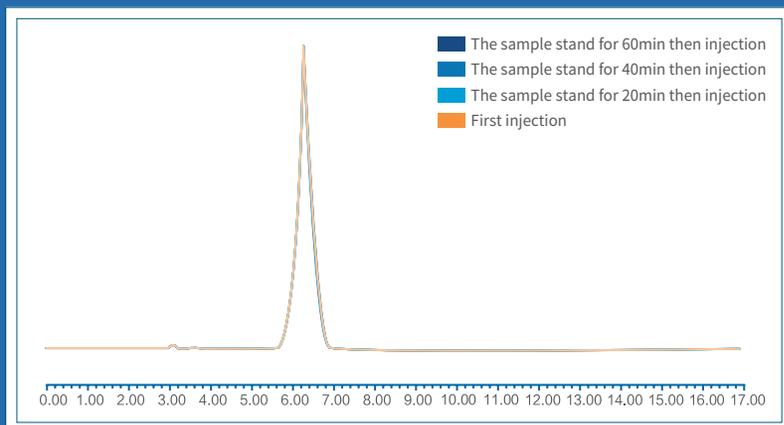
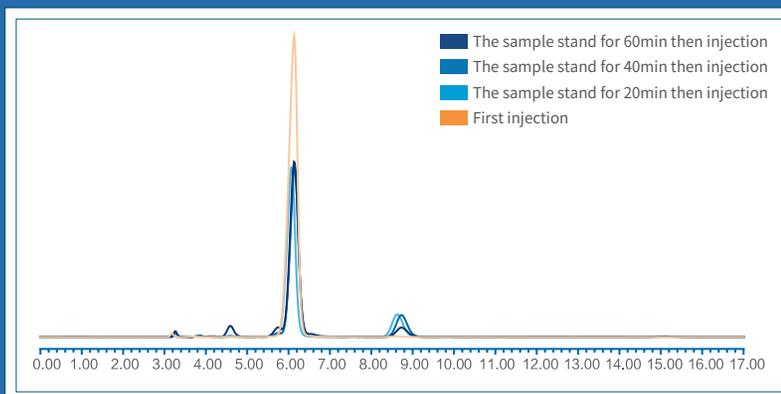
Low sample residue

- Reduce sample waste, reduce sample residue and improve injection reproducibility;
- Improving the injection speed is beneficial for high-throughput sample analysis;
- The optimized injection system cleaning method further reduces sample residue.

Sampler with thermo rack (option)

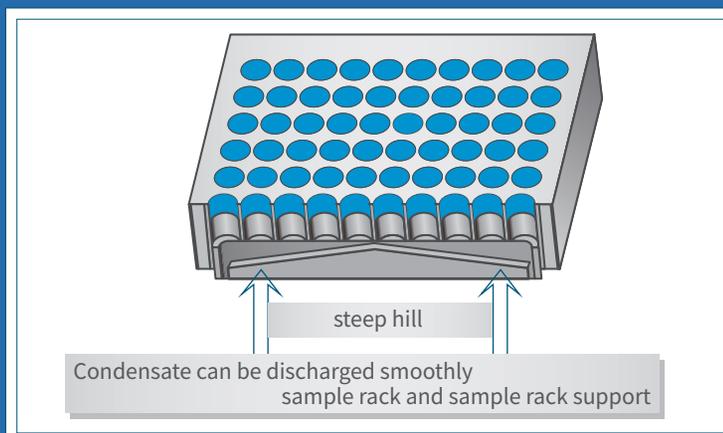
The system uses patented Peltier temperature control module to accurately stabilize the temperature of the sampler at the set value and ensure the stability of temperature sensitive samples.

For temperature sensitive samples, the sample analysis is carried out without the temperature control of the injection system. The increase of external temperature will lead to the generation of impurities, and the impurities will gradually increase and become larger.



For the same sample, the sample was analyzed at 4°C in the sampling system, and the analysis results did not change with the passage of time.

The inner part of the instrument is designed to prevent condensation and improve the service life of the instrument.



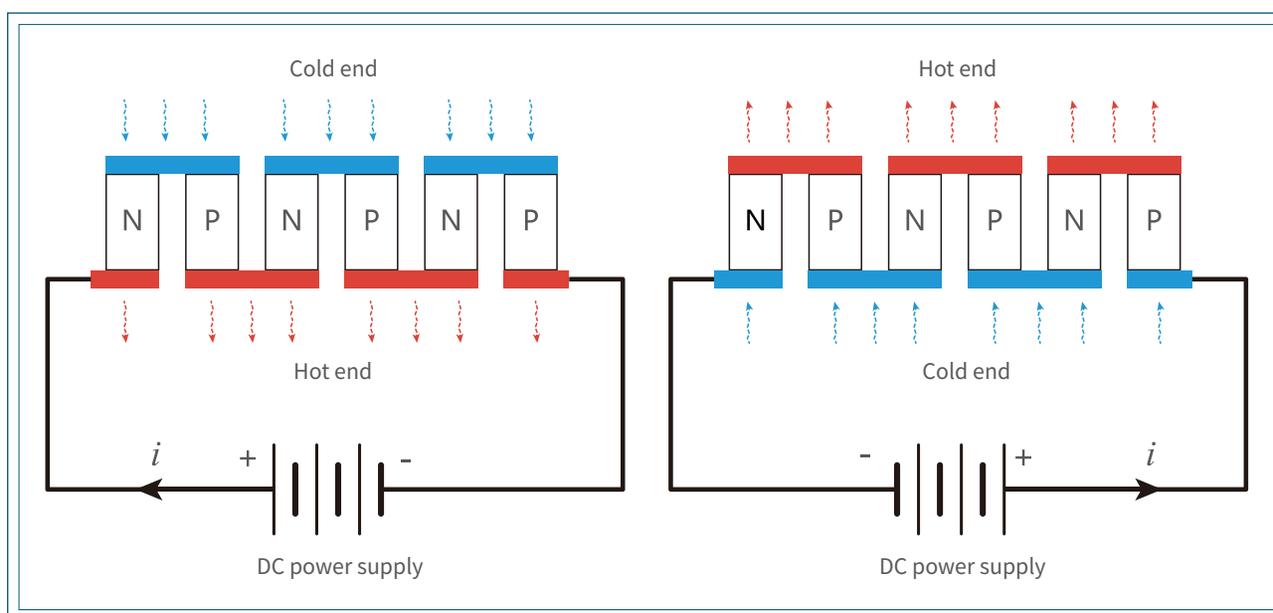
Column Oven

More accurate temperature control accuracy Wider temperature control range More flexible column management

The column temperature box adopts a Peltier temperature control unit and a specially designed pre-heating function to ensure sharp, symmetrical, and reproducible chromatographic peaks.

Peltier temperature control mode

Capable of simultaneously heating and cooling, providing a wider temperature control range.



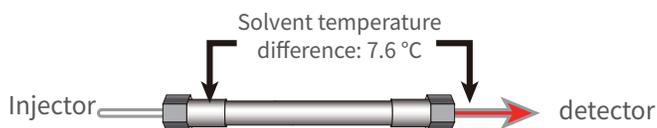
Mobile phase preheating function

The mobile phase is pre heated before entering the column to reduce the interference to the temperature environment in the column;

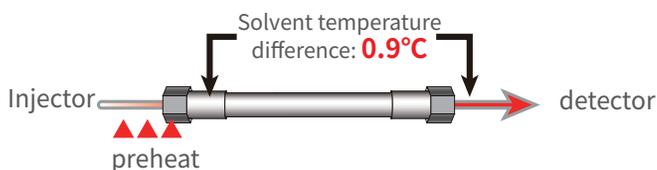
The air inside the column oven always circulates to ensure the constant ambient temperature around the column;

Ensure that the internal temperature of the chromatographic column is constant during the experiment

Air circulation mode

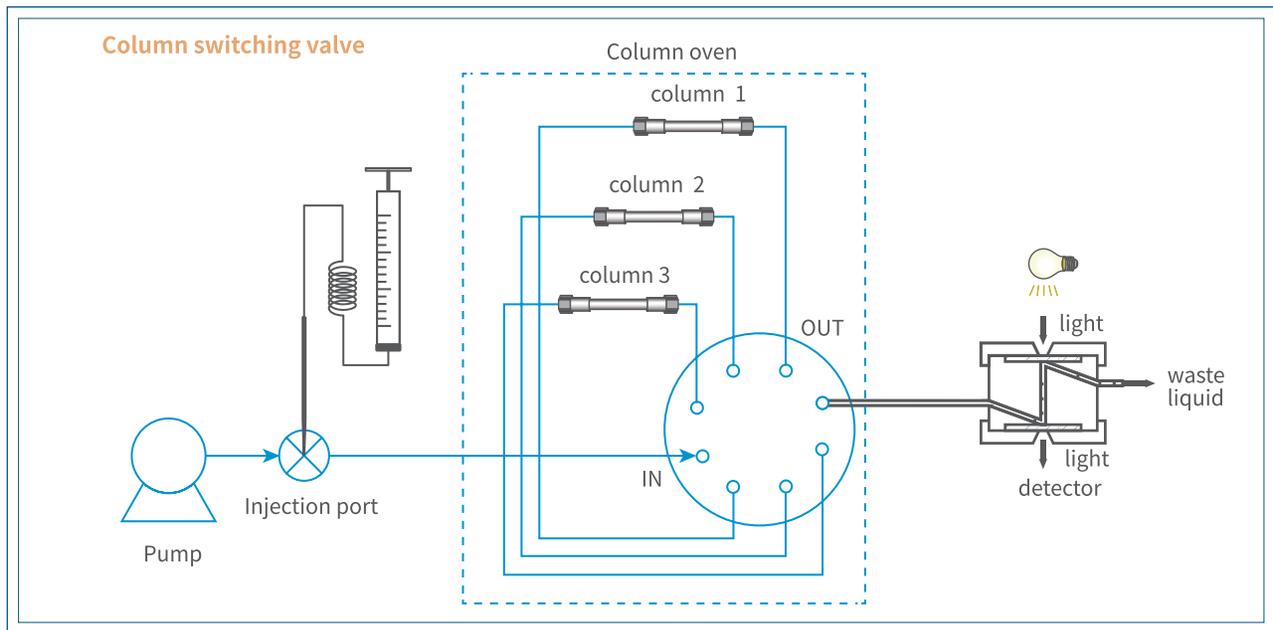


Air circulation + Preheating mode

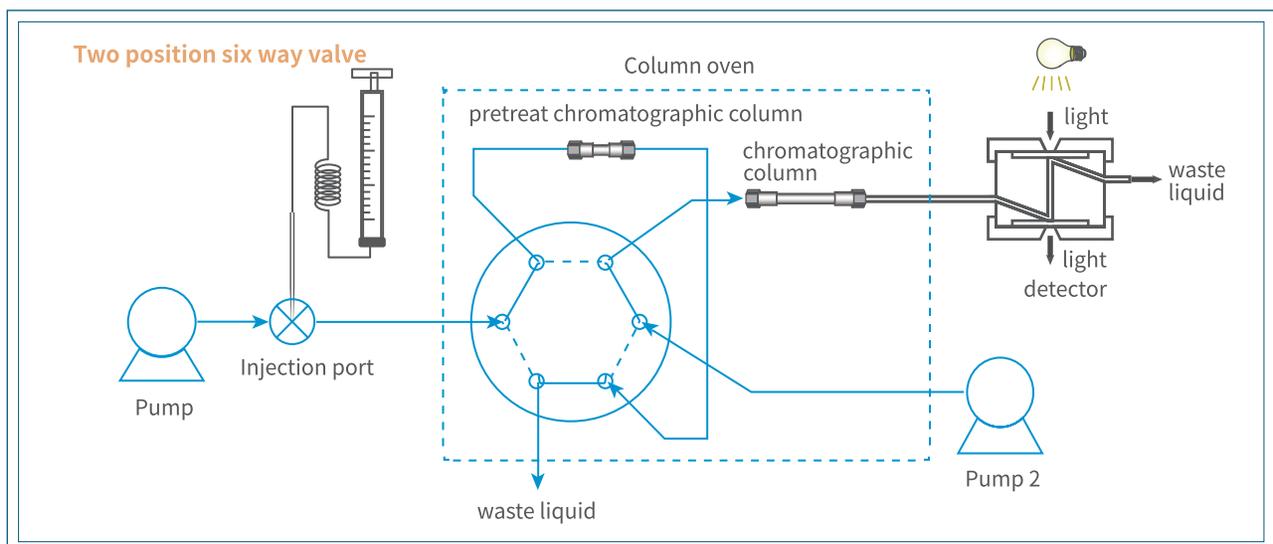


Optional valve

Column switching valve: three chromatographic columns can be placed at the same time. Through the three column switching valve, the flexible switching between chromatographic columns can be realized, which is convenient for method development and column screening.



Two position six way valve: it can meet the experimental needs of a variety of chromatographic methods, such as online sample processing, online enrichment, two-dimensional chromatography, etc.



A variety of detectors with excellent performance

A variety of detectors can be selected to meet the different needs of users

UV Detector

Adopting high-quality optical units and optimized optical path design, it can provide higher sensitivity and meet the analysis of trace and trace samples.

DAD

The sensitivity of DAD detector reaches the level of UV detector which can meet the needs of high sensitivity analysis and purity analysis at the same time.

1 High quality optical units

2 Under optimized optical path design

3 1024 diode array

4 Mechanical engraved grating

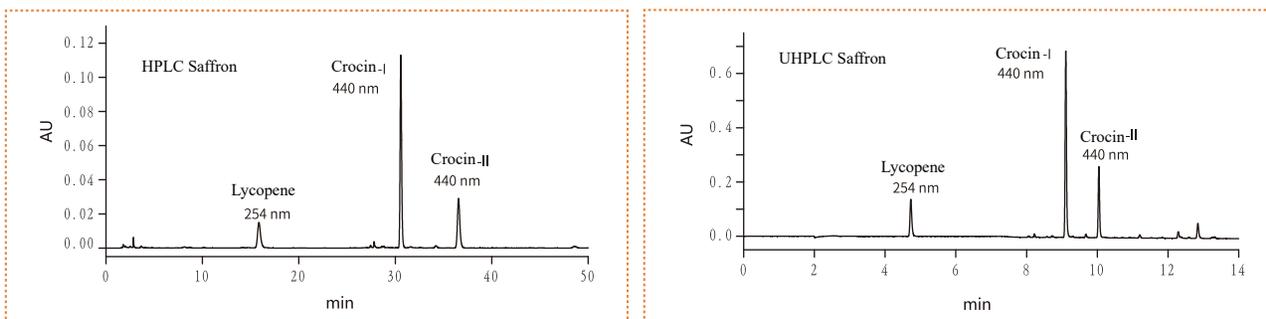


High analysis efficiency and cost reduction

As we all know, in terms of improving the chromatographic separation efficiency, it is firstly considered the packing particle size of the chromatographic column. However, due to the high instrument back pressure caused by small particle size, the conventional HPLC is difficult to meet the requirements. Therefore, the instrument must be upgraded to really improve the analysis efficiency. While improving the ability of the instrument to withstand high back pressure, it is necessary to optimize the system volume of the instrument, which can successfully avoid the chromatographic peak broadening caused by large system volume and sample diffusion.

S6000Plus not only improves the pressure resistance, but also optimizes and upgrades the overall hardware design of the instrument, give full play to the efficient separation.

On the premise of ensuring the performance of small particle size chromatographic column S6000Plus can greatly shorten the analysis time and improve the analysis efficiency. In addition, which can reduce the use of solvent and the resulting waste liquid treatment pressure to a greater extent.



Comparison of results	Method	Flow rate (mL / min)	Running time (min) / needle	Solvent (mL) / needle
	S6000	1	50	50
	S6000Plus	0.4	14	5.6
	Cost saving	—	36	44.4



improve work efficiency

(calculated by operating for 20 hours in one day);
HPLC can analysis 24 samples a day,
UHPLC can analysis 85 samples a day,
Work efficiency increased by about **3** times.



Save solvent

(analyze one sample):
50 mL of solvent is required for HPLC,
UHPLC requires 5.6mL of solvent,
The solvent cost is reduced by about **80%**.



Waste liquid treatment

Waste liquid production (1000 needles):
50L waste liquid is produced by HPLC,
UHPLC generates 5.6L waste liquid,
The cost of waste liquid treatment is reduced by about **80%**.

ABOUT US

Professional Application Support

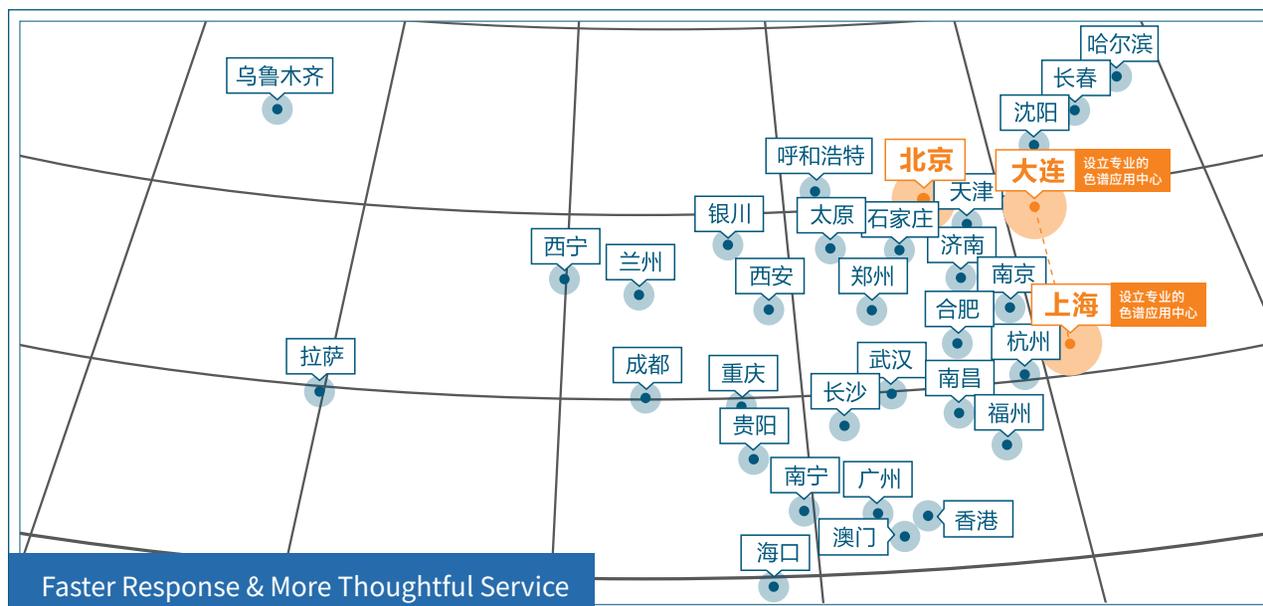
The application service center has the ability to develop both standard SOP solutions and customized methods, as well as on-site support, effectively solving application difficulties and pain points.



Five Star After-sales Service

The after-sales department of Acchrom-tech has obtained the "five-star after-sales service certification", with a complete organizational structure led by senior engineers with over 10 years of work experience in foreign enterprises. It has a complete gradient construction mechanism, and service engineers are based in more than 20 provinces, cities, and regions, with a service scope facing the whole country. The after-sales engineer has proficient business skills and can meet the needs of users for installation, certification, repair, maintenance, instrument relocation, and compliance consulting services for various types of color mass spectrometry equipment and software.

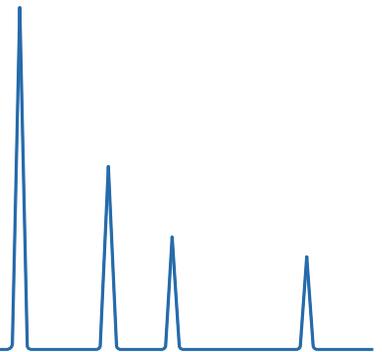
Sales Network Throughout The Country



Plus



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